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BY EMAIL & POST

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For the attention of Andrew Weisz

Dear Sir

**Quest Sydney Olympic Park
Erosion & Sediment Control Plan and Concept Stormwater Drainage Plan**

Please find enclosed the following drawings:

C010	Erosion & Sediment Control Plan	Rev P01
C011	Erosion & Sediment Control Details	Rev P01
C020	Concept Stormwater Drainage Plan	Rev P01

These drawings have been provided for the purpose of the planning submission for the development of Site 22, Edwin Flack Avenue, Sydney Olympic Park.

The designs provided are based upon:

- Survey drawing 19395-1 Rev C by Project Surveyors
- Edwin Flack Avenue Services Plan Sheets 1 and 2, Drg No.s HSR3-330 and HSR3-331 by Olympic Co-ordination Authority
- Fenton Design Group architectural sketches SK010 – SK021, provided 11th November 2008.
- Landscape Plan “28049_Site22_LandscapeBase_ACTIVE” issued 27 November 2008

The designs shown are based on the current concept design at the time of production. Designs are subject to change to reflect any changes made to the site concept design. This includes the locations of drainage downpipes which have been positioned according to the design intent of Fenton Design Group. These locations and the number of downpipes will require confirmation from the hydraulic engineer upon their appointment.

The concept designs have been provided with reference to the requirements outlined in Auburn City Council’s DCP 2000 and Landcom’s Managing Urban Stormwater – Soils and Construction, 4th Edition, March 2004.

We have reviewed the water sensitive urban design (WSUD) opportunities for the site but these are very limited in scope, due to the size of the site and the presence of a basement carpark. Permeable pavements are not likely to be feasible considering the risk associated with water entering the ground and potentially the basement. The pavements are also outside of the site boundary and there are possible issues of maintenance responsibilities with the Sydney Olympic Park Authority (SOPA). Due to the majority of the trees being existing (retained), it would not appear wise to attempt to retrofit WSUD solutions to them and risk damage to the root systems and therefore the trees. Telephone conversations have been held with various individuals within the SOPA. This included a conversation with Todd Kitson (9714 7438) who advised that stormwater harvesting from the site is unlikely to be acceptable due to the site’s current site-wide harvesting strategy.

Further clarification may be sought from Andrzej Listowski (9714 7404). The only identified solution is to provide for infiltration into the new grassed verge in Edwin Flack Avenue, as indicated in Figure 1.

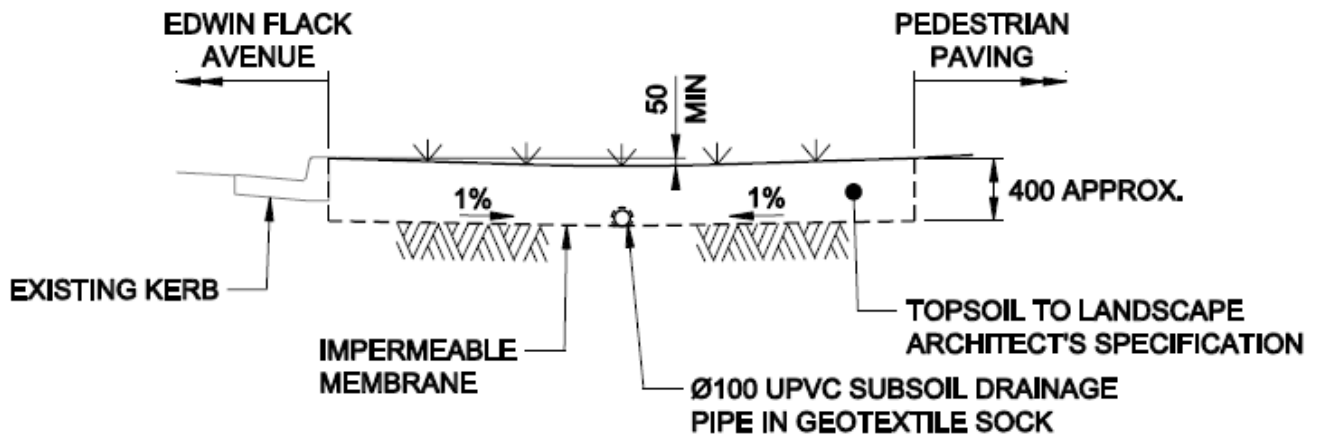


Figure 1 - Turf Verge Typical Section

Through consultation with the SOPA via the landscape architect (David Duncan – Aspect Studios) it has been identified that although innovative ideas are encouraged, any strategies to be implemented are to be standardised throughout the entire Sydney Olympic Park site. No such measures have been adopted elsewhere within Sydney Olympic Park and are therefore not a requirement for Site 22. Therefore this option has not been indicated on the drainage plans for the Department of Planning submission.

An existing Ø675 stormwater main has been indicated on the Olympic Coordination Authority's services plan as traversing the eastern side of the site. The location of this pipe will clash with the proposed basement and it is therefore required to be relocated.

Information on the requirements for on-site detention (OSD) has been requested from SOPA and Auburn City Council. Both authorities have advised that there is no requirement for OSD. SOPA have advised that the site has a site-wide Water Reclamation and Management Scheme (WRAMS) which collects, treats, stores and reticulates recycled stormwater throughout the site. We have also been advised that during the design for the Budget Accommodation (Formula 1), allowance was made in sizing pipes and a GPT for the development of sites upstream. This includes Site 22.

Advice regarding OSD has also been sought from Auburn City Council. This advice was sought prior to Quest advising that Council would not be the approving authority in the Planning Submission. However, the outcome of discussions with the Council produced similar advice, that "the site is exempt from the OSD requirements subject to submission of a drainage plan showing that the stormwater run off from the site is drained to zone 8" (ie discharges to the SOPA drainage network). This advice was received by email from Bala Sudarson (bala.sudarson@auburn.nsw.gov.au). The drainage strategy shown on Drawing C020 is as per these requirements.

Hydraulic modelling of the existing and proposed drainage network has not been undertaken and will be required during more detailed design stages. This is likely to include the confirmation of pipe sizes, freeboard and pit inlet capacities.

We trust that the information provided meets the requirements of the Department of Planning submission. Please do not hesitate to contact the undersigned if any further information is required.

Yours faithfully

Karen Seeto
Civil Engineer

Enc C010 Erosion & Sediment Control Plan Rev P01
 C011 Erosion & Sediment Control Details Rev P01
 C020 Concept Stormwater Drainage Plan Rev P01